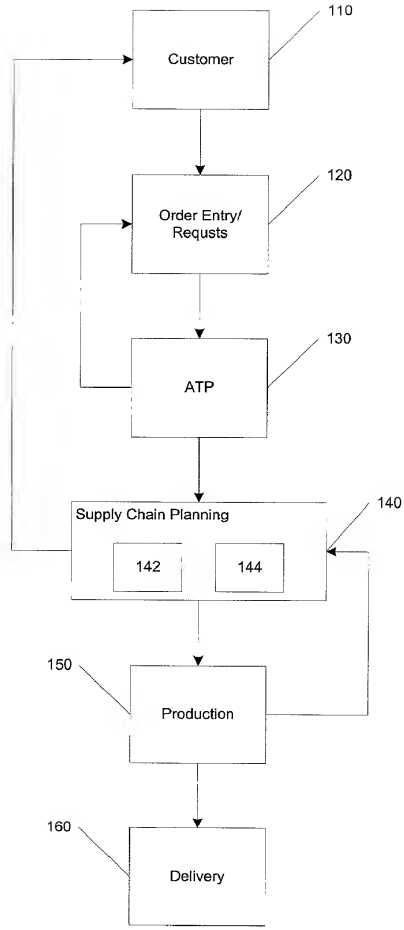
110
Customer
120
Order Entry/
Requsts
130
ATP
140
Supply Chain Planning
142
144
150
Production
160
Delivery

Figure 1

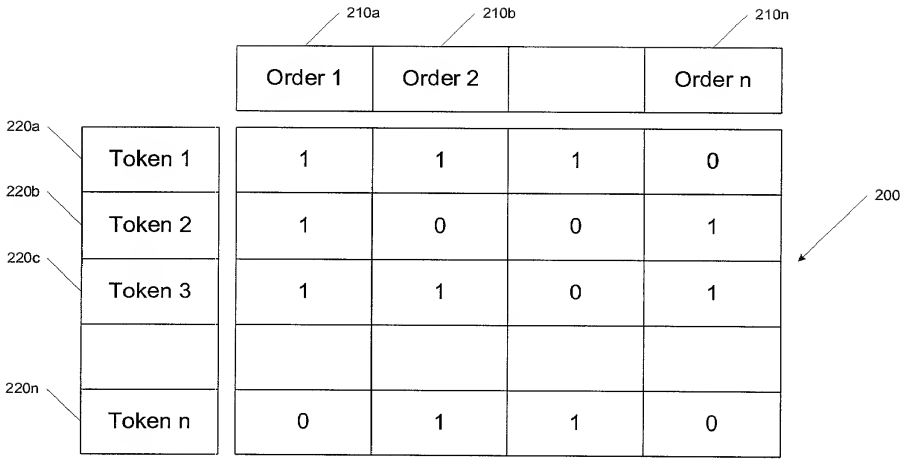

Figure 2

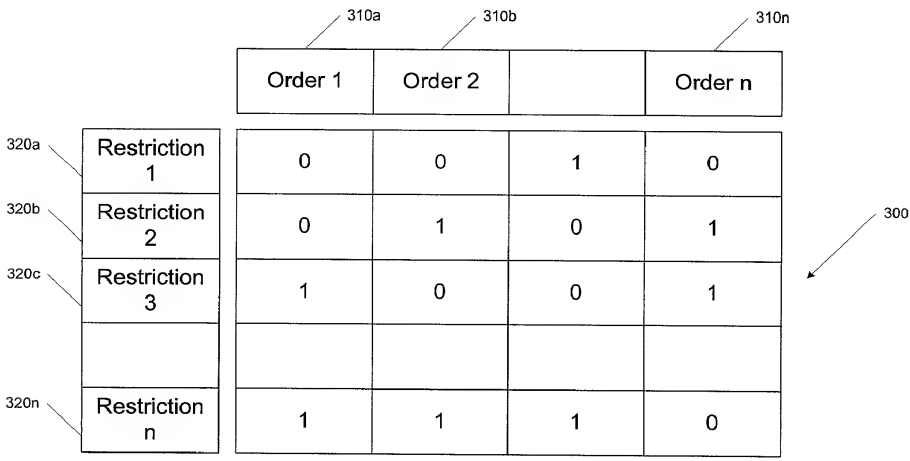

Figure 3

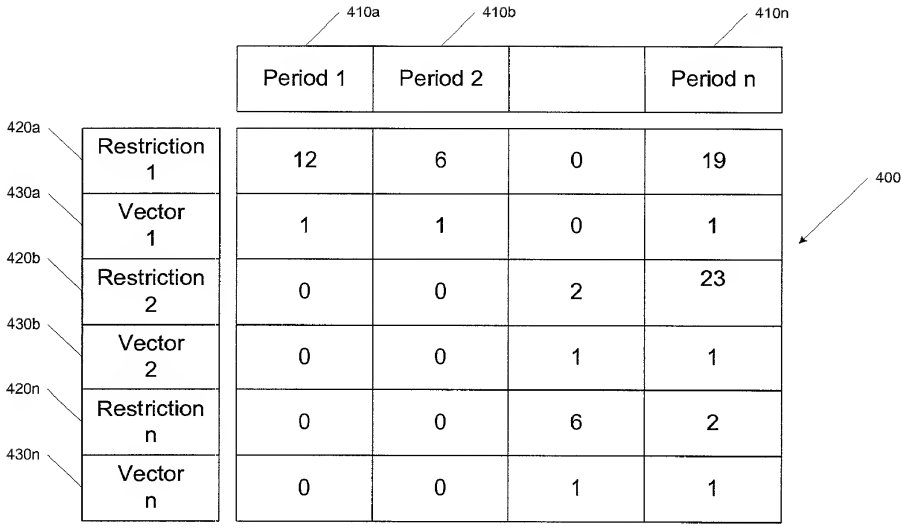

Figure 4

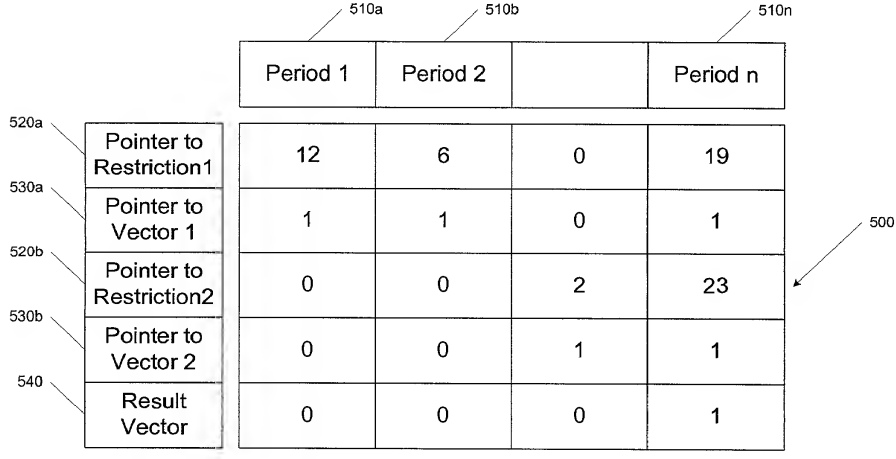

Figure 5

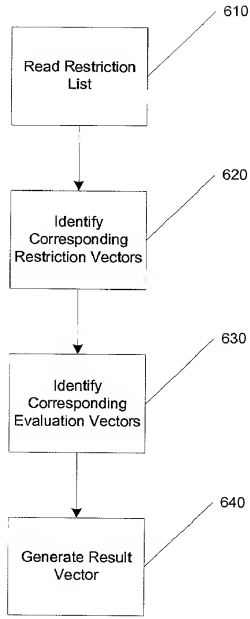
610
Read Restriction List
620
Identify Corresponding Restriction Vectors
630
Identify Corresponding Evaluation Vectors
640
Generate Result Vector

Figure 6

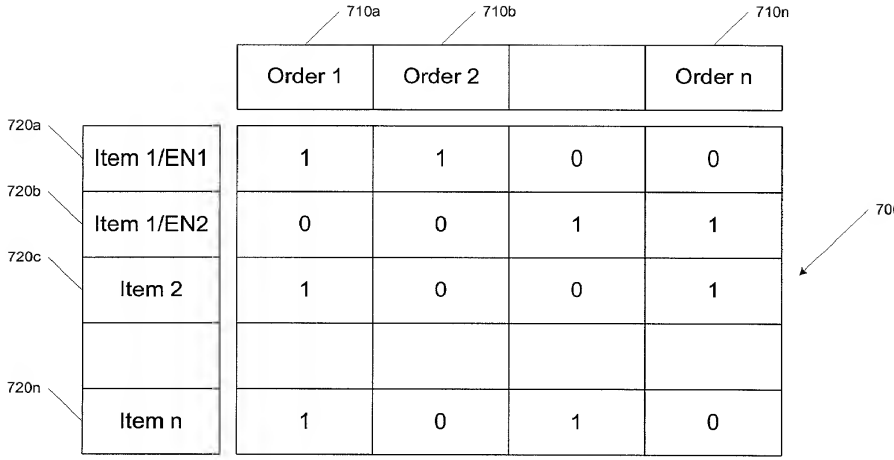

Figure 7

	Order 1	Order 2		Order n
Item 1/EN1	1	1	0	0
Item 1/EN2	0	0	1	1
Item 2	1	1	1	1
Item n/EN1	1	1	0	0
Item n/EN2	0	0	1	1

800

Figure 8

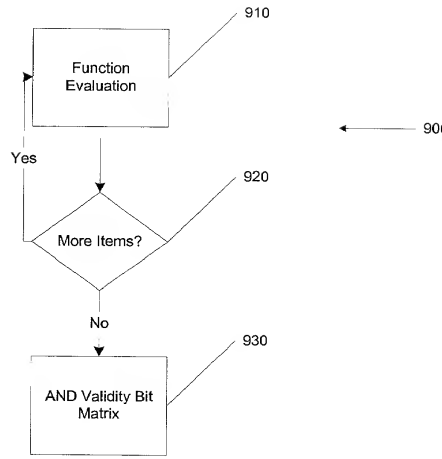
910
Function Evaluation
900
Yes
920
More Items?
No
930
AND Validity Bit Matrix

Figure 9

1010

Restrict.	Effectivity	Selection Condition
R_1	EN_1	C_1='V_1'
R_1	EN_2	C_1='V_2'

1020

Eff. Number	Validity
EN_1	1/1/2000
EN_2	7/1/2000

1030

	Order 1	Order 2	Order 3
C_1='V_1'	1	0	1
C_1='V_2'	0	1	1

Explode

1040

	Order 1	Order 2	Order 3
R_1/EN_1	1	0	1
R_1/EN_2	0	1	1

1050

	6/28	6/29	6/30	7/1	7/2	7/3
Restriction 1	0	3	1	0	3	4
Bit	0	1	1	0	1	1

1060

EN_1	1	1	1	0	0	0
EN_2	0	0	0	1	1	1

1070

Order 1	0	1	1	1	1	1
Order 2	1	1	1	0	1	1
Order 3	0	1	1	0	1	1

Figure 10

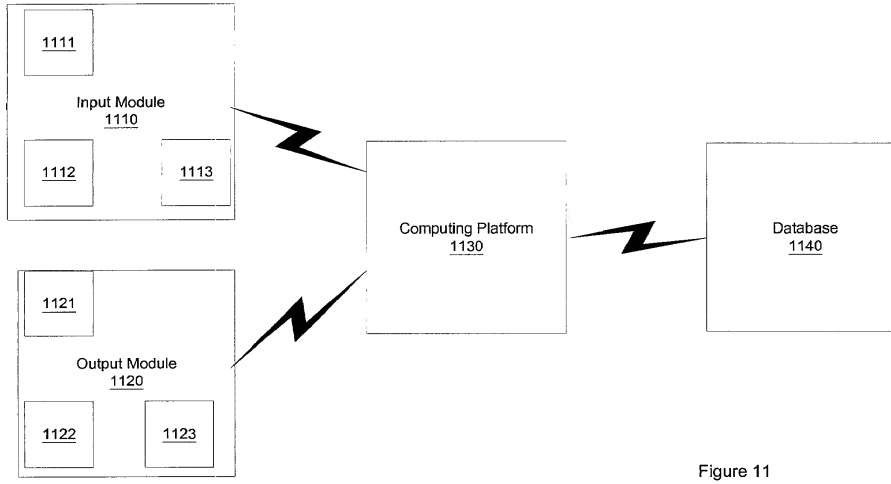
1111
Input Module
1110
1112
1113
Computing Platform
1130
Database
1140
1121
Output Module
1120
1122
1123

Figure 11